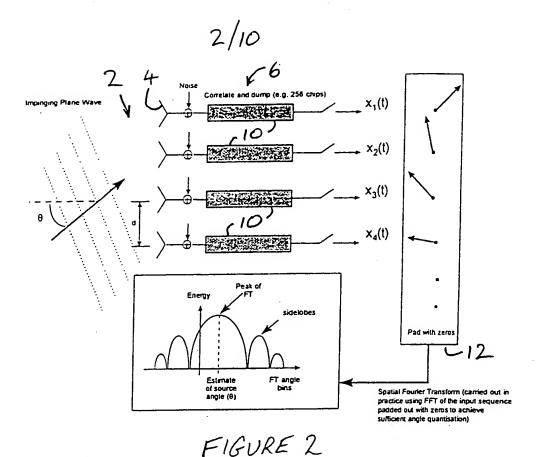


FIGURE 1



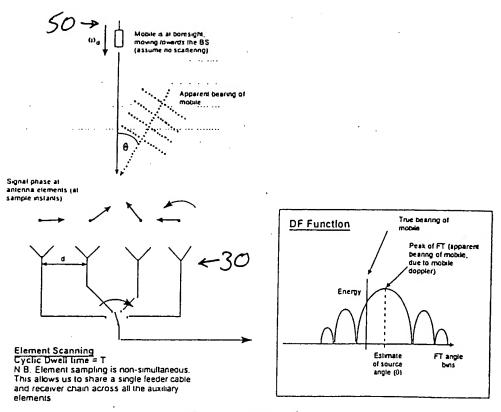
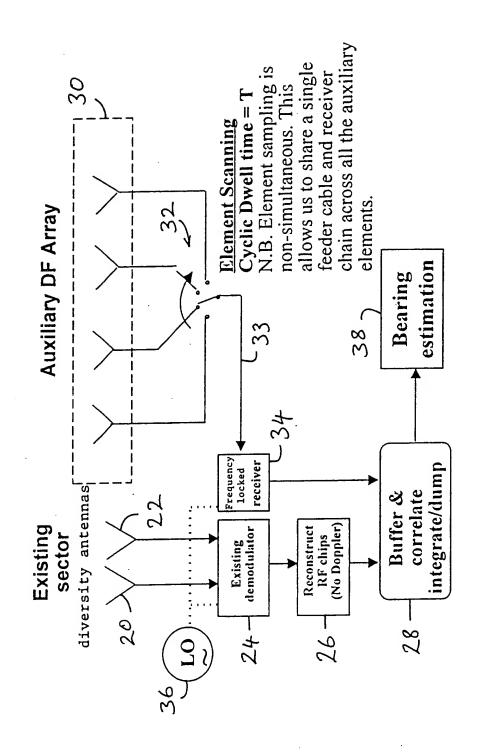
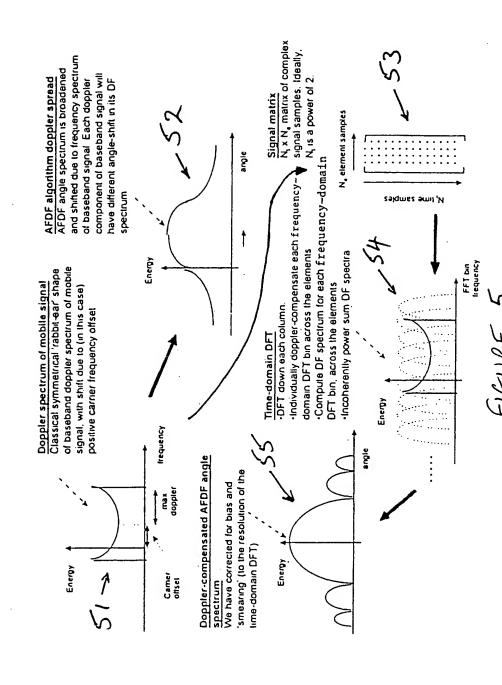


FIGURE 4



3/10

FIGURE 3



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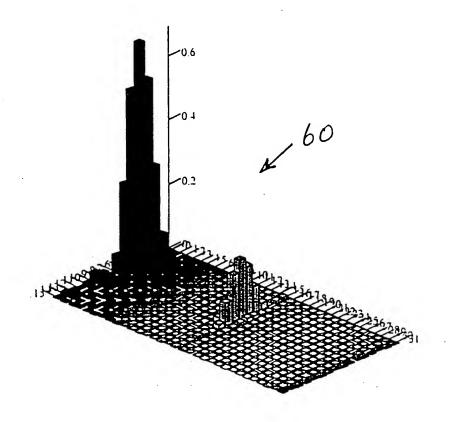
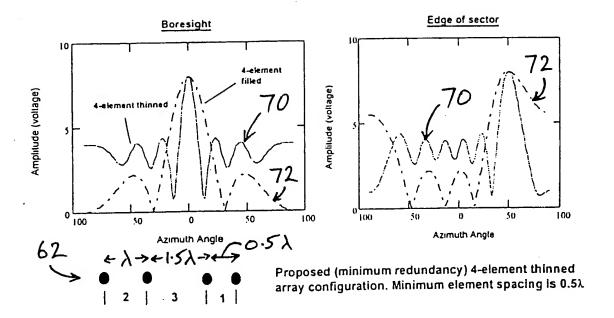


FIGURE 6

6/10



- The selected thinned array configuration biases elements towards the edge of the available aperture and achieves a -3dB beam width of 11° (N.B. Narrower beamwidth than a 7-element filled array due to the 'end-weighting').
- Peak sidelobes close to the -6dB target level are achieved even when the main beam is scanned towards the edge of the sector.

FIGURE 7

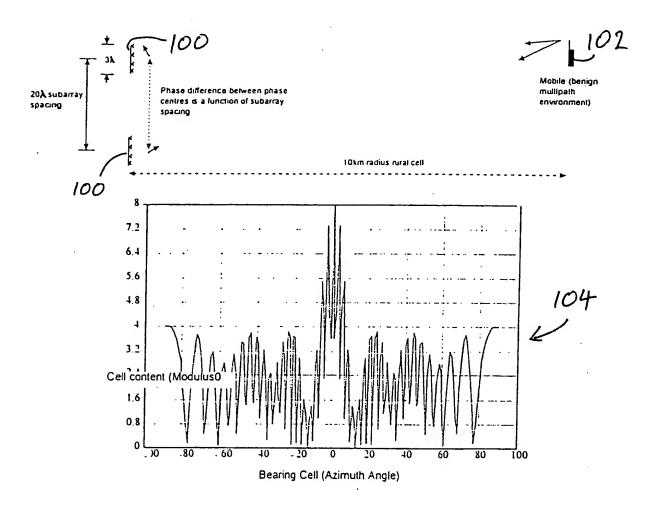


FIGURE 8

Cellsde Beacon (CSB)
-12dBm maximum
For alignment calibration only

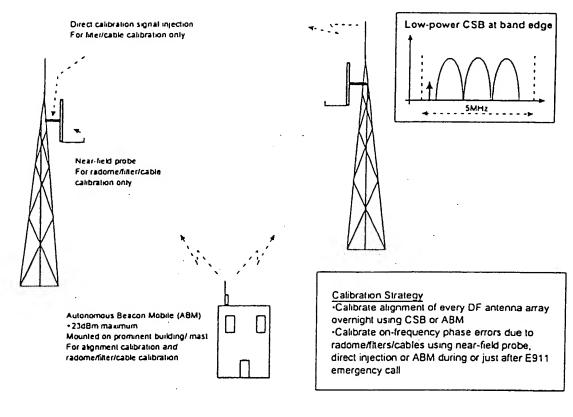


FIGURE 9

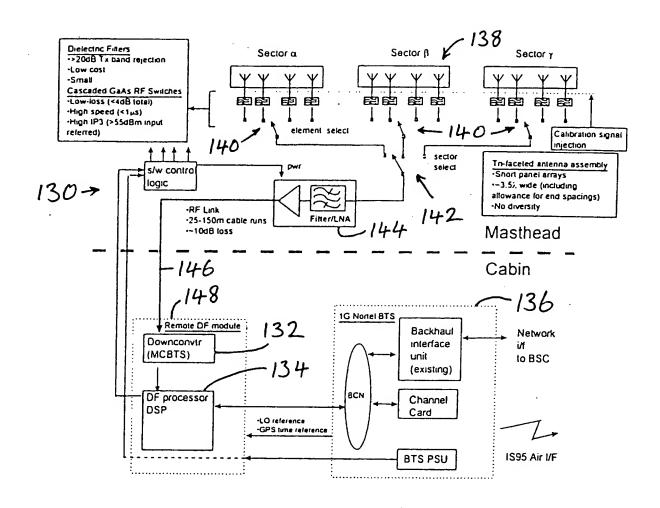


FIGURE 10

10/10

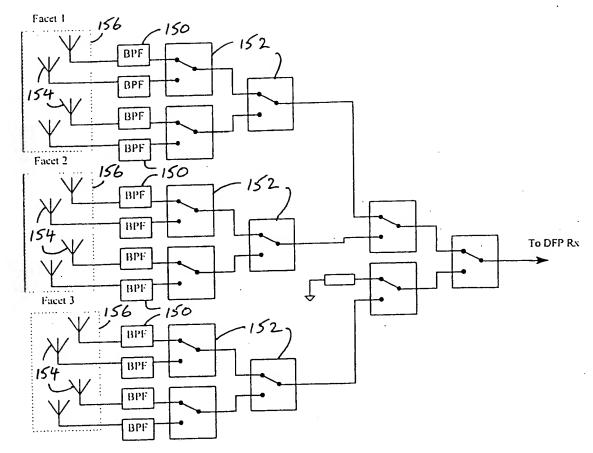


FIGURE 11